

Figure 1

K P T P Q P T P Q P T S E P T S E P T S E P T S E P T P Q P A P P Q P A P P Q 735

2113 AAACCAACACCTCAACCACACCTCAGCCAACATCTGAGCCAACATCTGAGCCAACATCTGAGCCAACATCTGAACCAACACCTCAACCAGCACCACCTC

P A P P Q P A P Q P A P Q P A P Q P A P Q P A P P Q P A P P Q P A P P Q P A P P Q P A P P Q P A P P Q P A P P Q P A P P Q P A P P Q P A P P Q P A P P Q P A P P Q P A P P Q P A P P Q P A P P K P A P K P

## Figure 2A

T N I S E P A L P D K D P Q P T S S P Q P K P R P R P R P Q P Q P H 34 1 ACCANTATATCCGAACCAGCACTGCCTGATAAGGATCCTCAACCTCACCTCACCTCAGCCAAAACCTCGGCCAAGACCTCGACCTCAACCTCC P H P K P Q P Q P T P E P Q P Q P A P E P R P Q P T S K P R P Q P 101 ATCCACATCCAAAACCTCAGCCTCAGCCGACGCCAGAACCTCAGCCTCAGCCGCGCGCCAGAACCTCGACCTCAGCCGACGTCAAAACCTCGACCTCAGCC T S K P R P Q P T P E P R P L P V P G P G P L P V P G P R P Q P Q 201 AACGTCAAAACCTCGACCTCGACCTCGACCTCGACCTCGACCTCAACCTCAA 301 CCTCAACCTCAACCTCAGCCTCAACCTCAACCTCAGCCTCAACCTCAGCC K P S S I D T G P S K S D S S F I F T V T K T I T K I S E T E K P 501 AAAACCATCATCGATAGACACAGGACCATCAAAATCGGATTCAAGCTTCATTTTTACAGTAACAAAAACAATAACAAAGATATCAGAAACAGAAAAACCA STKPSVKPTSTKTTSKPSTKPSTKPSVKPASTKT234 601 TCTACAAAACCATCTGTGAAACCAACCTCTACAAAGACAACATCAAAACCATCTACAAAACCATCTACAAAACCATCTGTAAAACCAGCCTCTACAAAGA SESEKPTLEEVPETKGNGVRVIGFEGLQLLSM 267 701 CAACATCAGAATCAGAAAAACCAACATTGGAAGAAGTTCCAGAAACTAAAGGGAATGGTGTAAGAGTAATAGGATTTGAGGGGTTACAATTATTATCAAT IVAIIIGIWIM\* 

Figure 2B

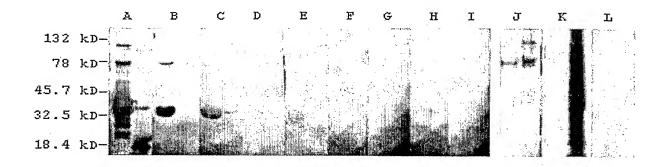
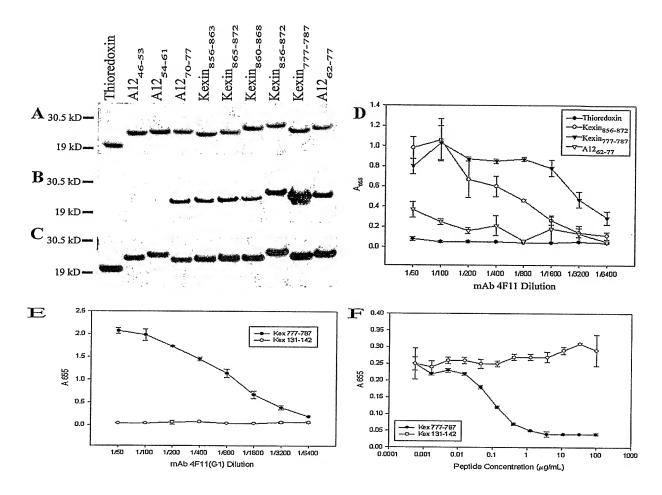


Figure 3

Construct	Sequence of insert
KEXIN <sub>856-872</sub>	KPAPKPTPPKPAPKPAP
KEXIN <sub>856-863</sub>	KPAPKPTP
KEXIN <sub>865-872</sub>	KPAPKPAP
KEXIN <sub>860-868</sub>	KPTPPKPAP
KEXIN <sub>777-787</sub>	RPAPPKPTPQP
A12 <sub>46-53</sub>	EPQPQPAP
A12 <sub>54-61</sub>	EPRPQPTS
A12 <sub>70-77</sub>	KPRPQPTP
A12 <sub>62-77</sub>	KPRPQPTS-KPRPQPTP

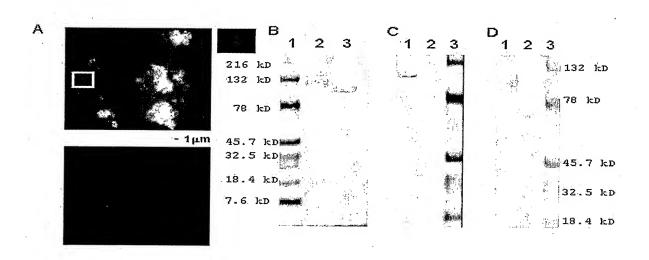
Figure 4



Figures 5A-F

URSP2 PspA	EKELKEIDESDSEDYIKEGLRAPLQSKLDAKKAKLSKLEELSDKIDEL	280
URSP2 PspA	DAEIAKLEKDVEDFKNSDGEQAEQYLVAAKKDLDAKKAELENTEADLK	328
Kex <sub>856-872</sub>	KPAPKPTP.PKPAPKPAP	
URSP2 PspA		376
Kex <sub>777-787</sub>	:          RPAP.PKPTPQP	
Kex <sub>856-872</sub>	KPAPKPTP.PKPAPKPAP	
URSP2 PspA	PAPAPKPAPAPKPAPAPAPTPEAPAPAPKPAPAPRPAPAPKPAPDPKP	424
Kex <sub>777-787</sub>	RPAP.PKPTPQP RPAP.PKPTPQP	

Figure 6



Figures 7A-D

WO 2005/065382 PCT/US2004/043959

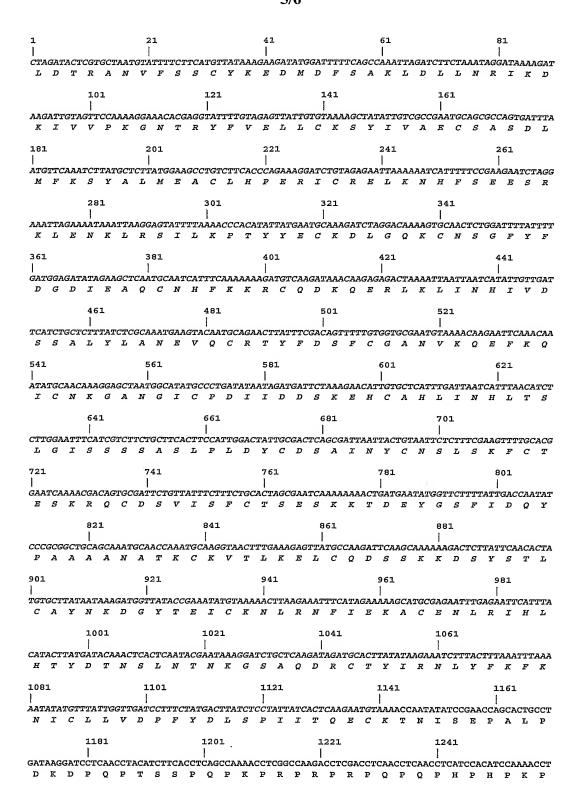


Figure 8A

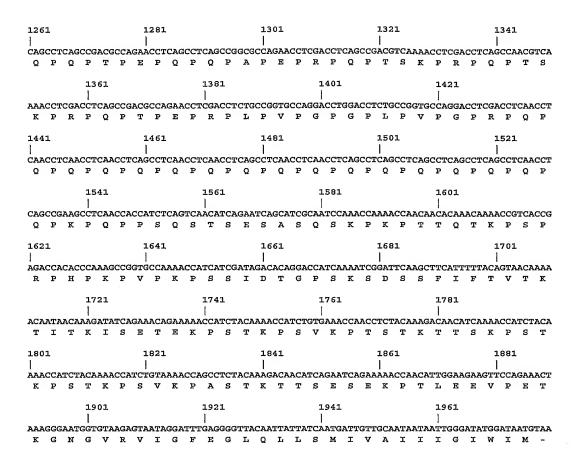


Figure 8B